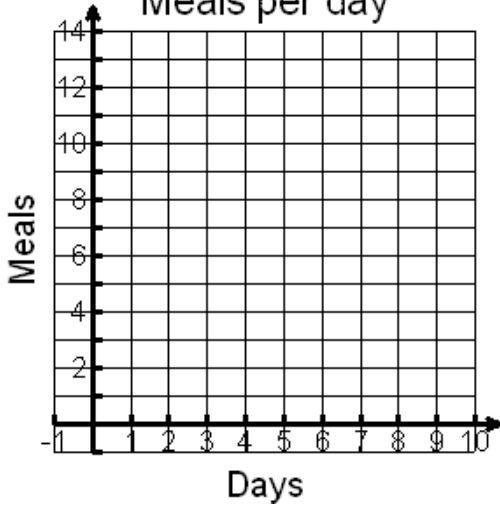
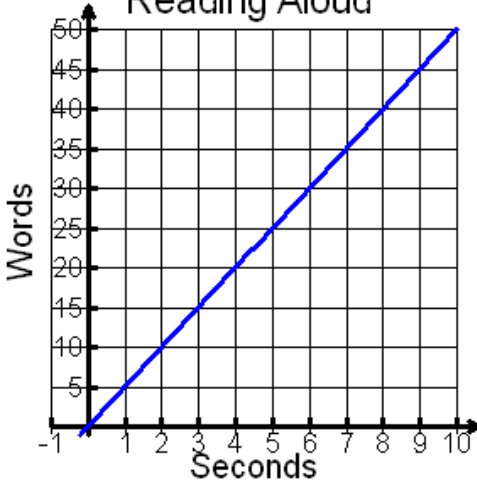


Rates of Change (slope) on Tables, Graphs, Stories, Equations

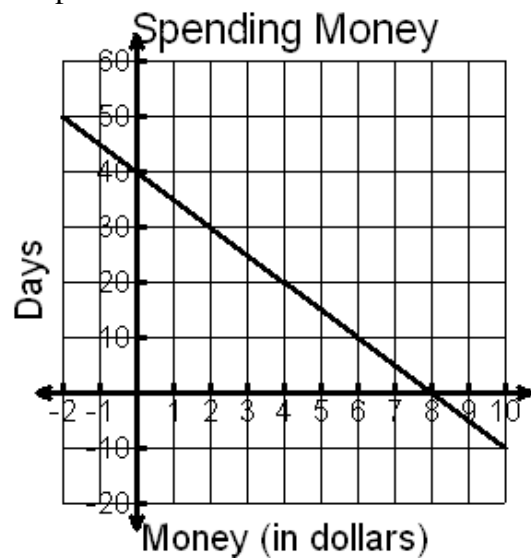
Fill in the missing information below.

<div>1. Table</div> <table><thead><tr><th>X (days)</th><th>Y(meals)</th></tr></thead><tbody><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>3</td></tr><tr><td>2</td><td>6</td></tr><tr><td>3</td><td>9</td></tr><tr><td>4</td><td>12</td></tr></tbody></table>	X (days)	Y(meals)	0	0	1	3	2	6	3	9	4	12	<div>Make the Graph</div> <div>Meals per day</div> 	<div>2. Fill in the table</div> <table><thead><tr><th>x ()</th><th>y()</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	x ()	y()											<div>Graph</div> <div>Reading Aloud</div> 
X (days)	Y(meals)																										
0	0																										
1	3																										
2	6																										
3	9																										
4	12																										
x ()	y()																										
<div>The rate of change (slope) is:</div> <div>3 meals/1 day</div> <div>The start point is:</div> <div>0 (zero)</div> <div>The equation is:</div> <div>y = 3x</div>	<div>What is the story</div>	<div>What is the rate of change (slope)?</div> <div>What is the start point?(constant)</div> <div>What is the equation?</div>	<div>What is the story?</div>																								

3. Fill in the table.

$$\mathbf{X} \left(\begin{array}{c} \\ \\ \end{array} \right) \bigg| \mathbf{y} \left(\begin{array}{c} \\ \\ \end{array} \right)$$

Graph



What is the rate of change (slope)?

What is the start point?

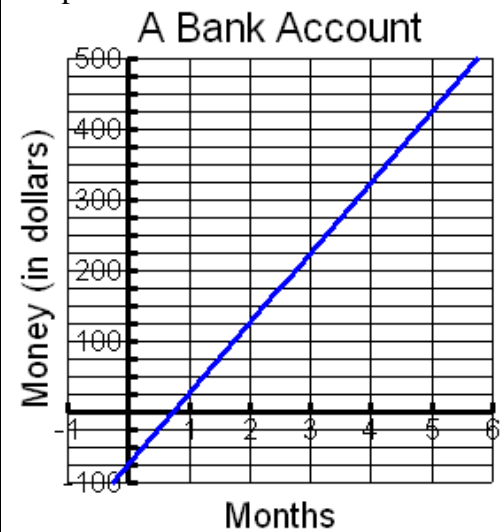
Use the rate of change and the start point to create an equation.

What is the story?

4. Fill in the table

$$\mathbf{X}(\quad) \mid \mathbf{y}(\quad)$$

Graph



What is the rate of change (slope)?

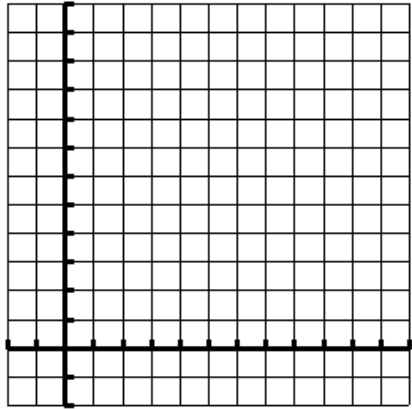
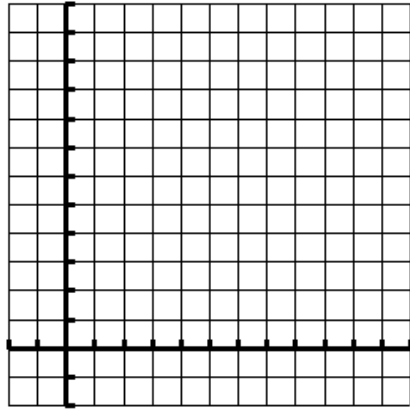
What is the start point

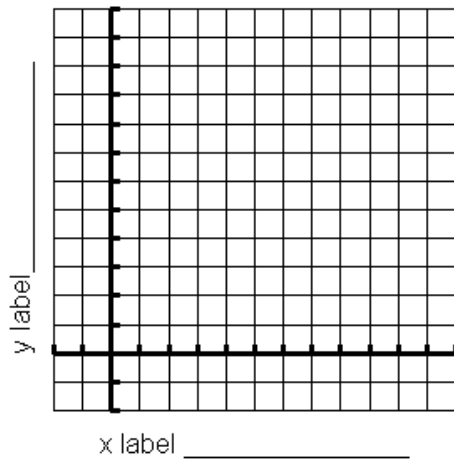
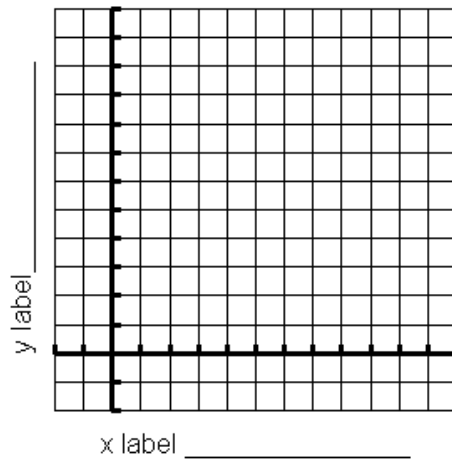
Use the rate of change and the start point to create an equation.

What is the story?

Create your own!

Here are a few “rates of change” ideas to help you get started: “text messages/day”, “money earned/hour”, “cost/pound”, “training-miles/day”, cellphone bills with a monthly fee plus “cost/text message”, “gym membership/month” with a discount coupon”.

<p>1. Table</p> <div data-bbox="115 397 394 701"><table><tr><td>x ()</td><td>y()</td></tr><tr><td>0</td><td>0</td></tr></table></div>	x ()	y()	0	0	<p>Graph</p> <div data-bbox="457 328 907 828"><p>Title _____</p><p>x label _____</p></div>		<p>2. Table</p> <div data-bbox="1096 397 1375 701"><table><tr><td>x ()</td><td>y()</td></tr><tr><td>0</td><td>0</td></tr></table></div>	x ()	y()	0	0	<p>Graph</p> <div data-bbox="1434 328 1883 828"><p>Title _____</p><p>x label _____</p></div>
x ()	y()											
0	0											
x ()	y()											
0	0											
<p>Rate of change (slope)</p> <p>Start point (constant)</p> <p>Equation</p>	<p>Story</p>		<p>Rate of change (slope)</p> <p>Start point (constant)</p> <p>Equation</p>	<p>Story</p>								

3. Table	Graph	4. Table	Graph								
<table><tr><td>x ()</td><td>y()</td></tr><tr><td>0</td><td>0</td></tr></table>	x ()	y()	0	0	<div>Title _____</div> 	<table><tr><td>x ()</td><td>y()</td></tr><tr><td>0</td><td>0</td></tr></table>	x ()	y()	0	0	<div>Title _____</div> 
x ()	y()										
0	0										
x ()	y()										
0	0										
Rate of change (slope)	Story	Rate of change (slope)	Story								
Start point (constant)		Start point (constant)									
Equation		Equation									